



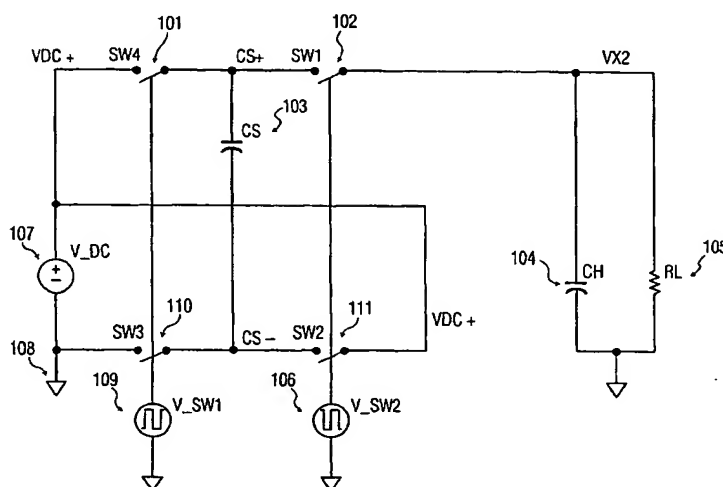
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(54) Title: INTEGRATED FLOATING POWER TRANSFER DEVICE WITH ELECTROMAGNETIC EMISSION CONTROL CIRCUIT AND METHOD



(57) Abstract: An electromagnetic emission control circuit and method are provided for a power transfer device having a floating bus (214, 215) driven by a power and data system (107, 301, 310, 103). The electromagnetic emission control circuit includes one or more switch control circuits (402, 411) coupled between the floating bus and the power and data system for facilitating charging of the floating bus and for controlling electromagnetic emission from the power transfer device by constraining a slew rate on the floating bus. In one embodiment, the one or more switch control circuits include a first switch control circuit (402) electrically coupled to a high side bus node (214) of the floating bus and a second switch control circuit (411) electrically coupled to a low side bus node (215) of the floating bus. Transfer characteristics of the first and second switch control circuits are tailored to constrain the slew rate on the floating bus.